

Mostafa Mohamed Amin

11 SALAH Street, ELWEHDA, IMBABA
CAIRO, EGYPT.
MOSTAFA-AMIN@LIVE.COM
(+20)100-2305066

OBJECTIVE

Seeking Challenging position as Software Engineer especially in the field of design and development where there is wide scope to increase my knowledge, potential and skills.

Current Position

1-Embedded Software Engineer at IBM Egypt Global Delivery Center

2-Instructor at AMIT Learning

Teaching:

- C programming
- Object Oriented Programming in C++
- Operating Systems
- Embedded System Fundamentals
- Embedded C
- Interfacing
- Testing and Validation
- Real Time Operating Systems
- MATLAB
- Simulink
- Control Systems Design
- Model Based Design
- Artificial Intelligence
- Robotics
- Image Processing

EDUCATION

9-Month Diploma, Information Technology Institute October 2011 – June 2012
Embedded Systems Track

BSc Communications and Electronics, November 2005 – July 2010
Faculty of Engineering Helwan, Helwan University
Accumulative Grade: Good
Graduation project: Wireless automation over WSN
>**Grade:** Excellent

Certificate of Secondary Education, September 2002 – July 2005
Mobarak Military School
>**Grade:**95%

Graduation project components:

1. Dir-320 Wireless G router
2. USB modem
3. Interfacing program on pc
4. Microcontrollers ATmega8535-enc28j60
5. 4 wheels (2 drive-2 free)
6. Drivers circuits
7. IP Cam

Tools:

1. CodeWarrior IDE
2. NetBeans IDE
3. Borland C
4. Eclipse IDE
5. Visual Studio
6. MATLAB
7. Xilinx ISE
8. MiKro C
9. Proteus 7.4
10. Simulink
11. LabView

TECHNICAL BACKGROUND

Programming Skills:

- C/C++(Win32,MFC,OpenGL,Multi-Threading,Linux Device Driver)
- Embedded C
- Java Programming Language
- C#
- Verilog
- Assembly
- System C
- J2ME
- VHDL

Operating System:

- Windows
- Linux
- UCOS-II
- OSEK/VDX
- VxWorks
- Windows CE

OOP Design:

- OOP Design Concepts
- Star UML
- IBM- Rational Rose Enterprise

Other:

- SQL
- RDMS
- JDBC
- Autosar
- DSP Algorithms
- Device Driver
- Parallel programming
- Multicore Computing
- Data mining
- Artificial Intelligence
- Machine learning
- Fuzzy Logic
- Neural Networks
- SunSpot Programming

Cores and Microcontrollers:

- ARM-cortex-M3
- Microchip PIC16f887A
- Microchip dspic 30F Family
- FreeScale HCS12
- Atmel 8051
- Atmel ATmega 128l
- Rensas MC16
- Technologies and Peripherals: UART-SPI-CAN-LIN-ADC-PWM

Communication and Networking Experience:

- CCNA Course August 2010 – October 2010
- GSM & GPRS Training Course February 2010 – March 2010
- Wireless Networking August 2010– September 2010
- Mobile Computing September 2010 – October 2010
- Digital Communication Systems February 2009 – March 2009
- SS7 Protocol February 2010 – March 2010
- Global Positioning System September 2008 – October 2008

INTERNSHIP & Previous Work

- Instrumentation & control Engineer at Egyptian Drilling Company (EDC)
- Trainee at Nestle Egypt (Control , PLC's , SCADA, Power Distribution , & Instrumentations)
July 2010 – August 2010
- Trainee at TOSHIBA Egypt (, CAD Tools , Power Distribution , Printed Circuit Boards)
July 2010 – August 2010

PROJECTS

Project Name	Description
EAM Mobile	<ul style="list-style-type: none">• Description: Customizable mobile enterprise solution using IBM WORKLIGHT framework• Technologies: IBM WORKLIGHT, HTML5, java script, Eclipse
UAV-Unmanned Ariel Vehicle	<ul style="list-style-type: none">• Description: Multi-purpose UAV (Unmanned Ariel vehicle)• Technologies: C Programming, Atmel ATmega 128l.
GSM Based Motor Control	<ul style="list-style-type: none">• Description: Motor control using GSM module and MATLAB to process the string message and end command over serial port to direct the motor right and left• Technologies: Matlab, GSM, PIC microcontroller, C programming.
I-TANK	<ul style="list-style-type: none">• Description: Full Design of an advanced line tracker• Technologies: HC12 microcontroller, C programming,
Wireless Automation Over WSN	<ul style="list-style-type: none">• Description: Automating an industrial system using Wireless sensor network• Technologies: C Programming, Atmel ATmega128l.
Ethernet	<ul style="list-style-type: none">• Description: simulate the classical Ethernet , practice basic socket

Simulation	API programming through a client/server application <ul style="list-style-type: none"> • Technologies: C Programming, Visual C++, Socket APIs.
Port Scanner	<ul style="list-style-type: none"> • Description: multi-threaded, console based port scanner. • Technologies: C++ Programming, Borland C++, Socket APIs.
Message Chatting	<ul style="list-style-type: none"> • Description: chat over a client /server network ,Using MFC sockets with sound notification support • Technologies: C++ Programming, Borland C++, Socket APIs.
Telnet Client	<ul style="list-style-type: none"> • Description: telnet console application that implements the Telnet client protocol • Technologies: C++ Programming, Borland C++, Socket APIs.
Image Segmentation	<ul style="list-style-type: none"> • Description: Demonstrating Image Processing using C++ • Technologies: C++ Programming, Borland C++.

HUMAN DEVELOPEMENT COURSES

- Presentation Skills
- Leadership
- Time Management
- Problem Solving and Decision Making
- Project Management

LANGUAGES SKILLS

- **Arabic** : Native
- **English** : Very Good

HOBBIES

- Football
- Playing Computer games
- Watching English movies
- Poetry
- Reading
- Internet

PERSONAL INFORMATIONS

Nationality: Egyptian

Military status: Exempted

Date of birth: November 22, 1988

Marital Status: Single

REFERENCES

Furnished upon request.